



WEB APPLICATION FIREWALL

FortiWeb RESTful API Reference

VERSION 5.8.1

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May 23, 2017

FortiWeb 5.8.1 RESTful API Reference

1st Edition

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FortiWeb RESTful API overview

FortiWeb provides an API that uses Representational State Transfer design principles (RESTful API) to access and modify the settings of individual FortiWeb appliances.

REST principles

Programs communicate with the API over HTTPS, the same protocol that your web browser uses to interact securely with web pages.

The API is based on interactions with a web page. Data is treated like a static web page:

- Add data by POSTing a web page
- Fetch data by GETing a web page
- Update data by PUTing a web page
- Delete data by DELETEing a web page

After the FortiWeb API receives a request, it returns an HTTP response code. These codes are discussed later in this reference.

Response format

The FortiWeb API provides responses in JSON format.

Accessing the API

You can access the FortiWeb API from most browsers using the GET method. However, many browsers require add-ons for extended operations such as PUT. You can make more complicated scripted queries using utilities such as cURL. You can also use scripting languages that have built-in library calls, such as Perl or Python, to interact with the API.



The examples in this reference make requests using cURL. cURL is more flexible than using a browser alone, works across platforms, and most scripts can call it. It is not as flexible as native scripting languages, but it is useful for illustrating how the API functions.

Authentication

The API HTTPS requests require an authorization value. Enter the username and password encoded using base64 strings.

For example, enter the username `admin` and an empty password (default):

```
Authorization: YWRtaW46
```

You can use the API to configure user passwords for a FortiWeb appliance.

ADOM-level access

FortiWeb administrative domains (ADOMs) are supported in the RESTful API. When ADOMs are enabled, the `admin` administrator can constrain other FortiWeb administrators' access privileges to a subset of policies and protected host names. This can be useful for large enterprises and multi-tenant deployments like web hosting.

If you have ADOMs enabled in FortiWeb, you can specify an ADOM in the authorization field of an HTTP request in the API; the default value of `ADOM_NAME` is "root."

Encoding a string with base64

The clear string is `admin:password:ADOM_NAME`. Encode it with base64:

```
Authorization: YWRtaW46cGFzc3dvcmQ6QURPTV9QU1F
```

Get the policy status of ADOM "root"

The default value of ADOM is `root`, so you don't need to specify it in the authorization header. Encode the authorization string `admin:a` with base64:

```
Authorization: YWRtaW46YQ==
```

cURL command:

```
curl -H "Authorization:YWRtaW46YQ==" -k  
"https://10.200.10.104:90/api/v1.0/System/Status/PolicyStatus"
```

Result:

```
[ { "_id": "FWB_Policy_Default_AutoTest_offline", "id": 1, "name": "FWB_Policy_Default_AutoTest_offline", "status": "enable", "vserver": "\/", "mode": "Offline Protection", "sessionCount": 0, "connCntPerSec": 0 }, { "_id": "FWB_policy_test_1", "id": 2, "name": "FWB_policy_test_1", "status": "enable", "vserver": "\/", "mode": "Offline Protection", "sessionCount": 0, "connCntPerSec": 0 } ]
```

Get the policy status of ADOM "adom1"

Encode the authorization string "admin:a:adom1" with base64:

```
Authorization: YWRtaW46YTphZG9tMQ==
```

cURL command:

```
curl -H "Authorization:YWRtaW46YTphZG9tMQ==" -k  
"https://10.200.10.104:90/api/v1.0/System/Status/PolicyStatus"
```

Result:

```
[ { "_id": "Policy_Adom1", "id": 1, "name": "Policy_Adom1", "status": "enable", "vserver":  
  "\/", "mode": "Offline Protection", "sessionCount": 0, "connCntPerSec": 0 } ]
```

URL format

The URLs that you use to access gateways and gateway managers use the following format:

```
https://<server_name>/api/<api_version>/<resource_name>/[<resource_id>]/[<sub_resource_  
name>]/[<sub_resource_id>]
```

Variable	Description
<server_name>	Name or IP address of a FortiWeb with a port value of 90.
<api_version>	API version (e.g., v1.0).
<resource_name>	Name of the FortiWeb setting.
<resource_id>	Unique identifier for the FortiWeb setting (e.g., an index number or name of a virtual server or policy).
<sub_resource_name>	Name of the FortiWeb sub-setting.
<sub_resource_id>	Unique identifier for a FortiWeb sub-setting.

For more information on the <resource_name> and <sub_resource_name> values, see [Specifying resources on page 10](#).

Supported API methods

The FortiWeb API supports the following methods.

Method	URL	Operation description	Success response code
GET	/<resource_name>/	Retrieves all records	200 OK 401 Unauthorized 404 Not Found 405 Not Allowed 500 Internal Server Error
GET	/<resource_name>/<resource_id>	Retrieves the specified record	200 OK 401 Unauthorized 404 Not Found 405 Not Allowed 500 Internal Server Error
GET	/<resource_name>/<resource_id>/<sub_resource_name>	Retrieves all sub-records	200 OK 401 Unauthorized 404 Not Found 405 Not Allowed 500 Internal Server Error

Method	URL	Operation description	Success response code
GET	/<resource_name>/<resource_id>/<sub_resource_name>/<sub_resource_id>	Retrieves the specified sub-record	200 OK
			401 Unauthorized
			404 Not Found
			405 Not Allowed
			500 Internal Server Error
POST	/<resource_name>/	Creates a new record	200 OK
			401 Unauthorized
			404 Not Found
			405 Not Allowed
			500 Internal Server Error
POST	/<resource_name>/<resource_id>/<sub_resource_name>	Creates a new sub-record	200 OK
			401 Unauthorized
			404 Not Found
			405 Not Allowed
			500 Internal Server Error

Method	URL	Operation description	Success response code
PUT	/<resource_name>/<resource_id>	Updates the specified record	200 OK 401 Unauthorized 404 Not Found 405 Not Allowed 500 Internal Server Error
PUT	/<resource_name>/<resource_id>/<sub_resource_name>/<sub_resource_id>	Updates the specified sub-record	200 OK 401 Unauthorized 404 Not Found 405 Not Allowed 500 Internal Server Error
DELETE	/<resource_name>/<resource_id>	Deletes the specified record	200 OK 401 Unauthorized 404 Not Found 405 Not Allowed 500 Internal Server Error

Method	URL	Operation description	Success response code
DELETE	/<resource_name>/<resource_id>/<sub_resource_name>/<sub_resource_id>	Deletes the specified sub-record	200 OK
			401 Unauthorized
			404 Not Found
			405 Not Allowed
			500 Internal Server Error

Specifying resources

You can use the API to access the following resources.

Resource name	Sub-resource name	Supported methods	Web UI location
System/ Status/ Status	—	GET	System > Status > Status
System/ Status/ PolicyStats?policy=some_policy	—	GET	System > Status > Status
System/ Status/ SystemResources	—	GET	System > Status > Status
System/ Status/ StatusOperation	—	GET	System > Status > Status
System/ Status/ HostName		GET, POST	
System/ Network/ Interface	—	GET, POST, PUT, DELETE	System > Network > Interface

Resource name	Sub-resource name	Supported methods	Web UI location
System/ Network/ StaticRoute	—	GET, POST, PUT, DELETE	System > Network > Static Route
System/ Network/ PolicyRoute	—	GET, POST, PUT, DELETE	System > Network > Policy Route
System/ Network/ DNS	—	GET, PUT	System > Network > DNS
System/ Network/ FailOpen	—	GET, POST, PUT	
System/ Network/ Vzone	—	GET, POST, PUT, DELETE	
System/ Config/ ConfigSynchronization	—	GET, PUT	System > Config > Config > Synchronization
System/ Config/ HaConfig	—	GET, PUT	System > Config > HA > Config
System/ Config/ Snmp	—	GET, PUT	System > Config > SNMP
System/ Config/ SnmpNewSnmpCommunity	—	GET, POST, PUT, DELETE	System > Config > SNMP
System/ Config/ Operation	—	GET, PUT	System > Config > Operation
System/ Config/ Advanced	—	GET, PUT	System > Config > Advanced
DoSProtection/ Application/ HTTPAccessLimit	—	GET	
System/ Config/ FortiGuard	—	GET, PUT	System > Config > FortiGuard

Resource name	Sub-resource name	Supported methods	Web UI location
System/ Config/ ReplacementMessage		GET, POST, PUT	
System/ Config/ ReplaceMessageImage		GET	
System/ Config/ ManageImages		GET	
System/ Config/ ReplacementImage		POST, PUT	
System/ Config/ HttpResponseCode		POST, PUT	
System/ Config/ ReplaceMessageViewInitParams		GET	
System/ Config/ FortiSandbox		GET, POST	
System/ Config/ FortiSandboxTest		GET	
System/ Admin/ Administrators	—	GET, POST, PUT, DELETE	System > Admin > Administrators
System/ Admin/ AccessProfile	—	GET, POST, PUT, DELETE	System > Admin > AccessProfile
System/ Admin/ Settings	—	GET, PUT	System > Admin > Settings
System/ Certificates/ Local	—	GET, POST, PUT, DELETE	System > Certificates > Local
System/ Certificates/ LocalDownload	—	GET (Download)	System > Certificates > Local

Resource name	Sub-resource name	Supported methods	Web UI location
System/ Certificates/ SNI	—	GET, POST, PUT, DELETE	System > Certificates > SNI
System/ Certificates/ CA	—	GET, POST, PUT, DELETE	System > Certificates > CA
System/ Certificates/ CAGroup	—	GET, POST, PUT, DELETE	System > Certificates > CA Group
—	CAGroup EditCAGroupMember	GET, POST, PUT, DELETE	System > Certificates > CA Group
System/ Certificates/ IntermediateCA	—	GET, POST, PUT, DELETE	System > Certificates > Intermediate CA
System/ Certificates/ IntermediateCAGroup	—	GET, POST, PUT, DELETE	System > Certificates > Intermediate CA Group
—	IntermediateCAGroup EditCAGroupMember	GET, POST, PUT, DELETE	System > Certificates > Intermediate CA Group
System/ Certificates/ CRL	—	GET, POST, PUT, DELETE	System > Certificates > CRL
System/ Certificates/ CertificateVerify	—	GET, POST, PUT, DELETE	System > Certificates > Certificate Verify
System/ Maintenance/ BackupRestore	—	GET, PUT	System > Maintenance > Backup & Restore
System/ Maintenance/ RestoreConfiguration	—	POST	System > Maintenance > Backup & Restore

Resource name	Sub-resource name	Supported methods	Web UI location
System/ Maintenance/ BackupConfiguration	—	POST	System > Maintenance > Backup & Restore
System/ Maintenance/ FirmwareUpgradeDowngrade	—	POST	System > Maintenance > Backup & Restore
System/ Maintenance/ BackupRestore FirmwareBoot	—	POST	System > Maintenance > Backup & Restore
System/ Maintenance/ DataAnalytics	—	POST	System > Maintenance > Backup & Restore
System/ Maintenance/ FTPBackup	—	GET, POST, PUT, DELETE	System > Maintenance > FTP Backup
System/ Maintenance/ SystemTime	—	GET, PUT	System > Maintenance > System Time
System/ Maintenance/ ConsoleLog	—	GET	System > Maintenance > Console Log
System/ Maintenance/ DataAnalytics	—	POST	—
User/ UserGroup/ UserGroup	—	GET, POST, PUT, DELETE	User > User Group > User Group
—	UserGroup EditUserGroupMember	GET, POST, PUT, DELETE	User > User Group > User Group
User/ UserGroup/ AdminGroup	—	GET, POST, PUT, DELETE	User > User Group > Admin Group
—	AdminGroup EditUserGroupMember	GET, POST, PUT, DELETE	User > User Group > Admin Group

Resource name	Sub-resource name	Supported methods	Web UI location
User/ LocalUser/ LocalUser	—	GET, POST, PUT, DELETE	User > Local User > Local User
User/ RemoteServer/ LdapServer	—	GET, POST, PUT, DELETE	User > Remote Server > LDAP Server
User/ RemoteServer/ RadiusServer	—	GET, POST, PUT, DELETE	User > Remote Server > Radius Server
User/ RemoteServer/ KdcServer	—	GET, POST, PUT, DELETE	User > Remote Server > KDC Server
User/ RemoteServer/ NtlmServer	—	GET, POST, PUT, DELETE	User > Remote Server > NTLM Server
Policy/ ServerPolicy/ ServerPolicy	—	GET, POST, PUT, DELETE	Policy > Server Policy > Server Policy
Policy/ WebProtectionProfile/ InlineProtectionProfile	—	GET, POST, PUT, DELETE	Policy > Web Protection Profile > Inline Protection Profile
Policy/ WebProtectionProfile/ OfflineProtectionProfile	—	GET, POST, PUT, DELETE	Policy > Web Protection Profile > Offline Protection Profile
ServerObjects/ Server/ VirtualServer	—	GET, POST, PUT, DELETE	Server Objects > Server > Virtual Server
ServerObjects/ Server/ ServerPool	—	GET, POST, PUT, DELETE	Server Objects > Server > Server Pool
	EditServer PoolRule	GET, POST, PUT, DELETE	Server Objects > Server > Server Pool

Resource name	Sub-resource name	Supported methods	Web UI location
ServerObjects/ Server/ Persistence		GET, POST, PUT, DELETE	Server Objects > Server > Persistence Policy
ServerObjects/ Server/ HTTPContentRoutingPolicy	—	GET, POST, PUT, DELETE	Server Objects > Server > HTTP Content Routing Policy
—	HTTPContent RoutingPolicy NewHTTPContentRouting	GET, POST, PUT, DELETE	Server Objects > Server > HTTP Content Routing Policy
ServerObjects/ ProtectedHostnames/ ProtectedHostnames	—	GET, POST, PUT, DELETE	Server Objects > Protected Hostnames > Protected Hostnames
—	ProtectedHostnames NewHost	GET, POST, PUT, DELETE	Server Objects > Protected Hostnames > Protected Hostnames
ServerObjects/ ServerHealthCheck/ ServerHealthCheck	—	GET, POST, PUT, DELETE	Server Objects > Server Health Check > Server Health Check
	HealthCheckRule	GET, POST, PUT, DELETE	
ServerObjects/ Service/ Custom	—	GET, POST, PUT, DELETE	Server Objects > Service > Custom
ServerObjects/ Global/ CustomKnownSearchEngines	—	GET, PUT	Server Objects > Global > Known Search Engines
ServerObjects/ Global/ CustomPredefined GlobalWhiteList	—	GET, PUT	Server Objects > Global > Predefined Global White List
ServerObjects/ Global/ CustomGlobalWhiteList	—	GET, PUT	Server Objects > Global > Custom Global White List

Resource name	Sub-resource name	Supported methods	Web UI location
ServerObjects/ XforwardedFor/ XforwardedFor	—	GET, POST, PUT, DELETE	Server Objects > X-Forward > For
—	XforwardedFor NewXForwardedForIP	GET, POST, PUT, DELETE	Server Objects > X-Forward > For
ApplicationDelivery/ URLRewritingPolicy/ URLRewritingPolicy	—	GET, POST, PUT, DELETE	Application Delivery > URL Rewriting Policy > URL Rewriting Policy
—	URLRewritingPolicy NewURLRewritingItem	GET, POST, PUT, DELETE	Application Delivery > URL Rewriting Policy > URL Rewriting Policy
ApplicationDelivery/ URLRewritingPolicy/ URLRewritingRule	—	GET, POST, PUT, DELETE	Application Delivery > URL Rewriting Policy > URL Rewriting Rule
—	URLRewritingRule NewURLRewritingCondition	GET, POST, PUT, DELETE	Application Delivery > URL Rewriting Policy > URL Rewriting Rule
ApplicationDelivery/ AuthenticationPolicy/ AuthenticationPolicy	—	GET, POST, PUT, DELETE	Application Delivery > Authentication Policy > Authentication Policy
—	AuthenticationPolicy NewAuthentication PolicyMember	GET, POST, PUT, DELETE	Application Delivery > Authentication Policy > Authentication Policy

Resource name	Sub-resource name	Supported methods	Web UI location
ApplicationDelivery/ AuthenticationPolicy/ AuthenticationRule	—	GET, POST, PUT, DELETE	Application Delivery > Authentication Policy > Authentication Rule
—	AuthenticationRule NewAuthentication RuleMember	GET, POST, PUT, DELETE	Application Delivery > Authentication Policy > Authentication Rule
ApplicationDelivery/ SitePublish/ SitePublishPolicy	—	GET, POST, PUT, DELETE	Application Delivery > Site Publish > Site Publish Policy
—	SitePublishPolicy NewPublishedSiteRule	GET, POST, PUT, DELETE	Application Delivery > Site Publish > Site Publish Policy
ApplicationDelivery/ SitePublish/ SitePublishRule	—	GET, POST, PUT, DELETE	Application Delivery > Site Publish > Site Publish Rule
ApplicationDelivery/ SitePublish/ KeytabFile	—	GET, POST, PUT, DELETE	Application Delivery > Authentication Policy Keytab File
ApplicationDelivery/ Compression/ FileCompressPolicy	—	GET, POST, PUT, DELETE	Application Delivery > Compression > File Compress Policy
—	FileCompressPolicy NewFileCompressPolicy	GET, POST, PUT, DELETE	Application Delivery > Compression > File Compress Policy
ApplicationDelivery/ Compression/ FileUncompressPolicy	—	GET, POST, PUT, DELETE	Application Delivery > Compression > File Uncompress Policy

Resource name	Sub-resource name	Supported methods	Web UI location
—	FileUncompressPolicy EditContentType	GET, POST, PUT, DELETE	Application Delivery > Compression > File Uncompress Policy
ApplicationDelivery/ Compression/ ExclusionRule	—	GET, POST, PUT, DELETE	Application Delivery > Compression > Exclusion Rule
—	ExclusionRule NewURL	GET, POST, PUT, DELETE	Application Delivery > Compression > Exclusion Rule
ApplicationDelivery/ Caching/ WebCachePolicy	—	GET, POST, PUT, DELETE	Application Delivery > Caching > Web Cache Policy
—	WebCachePolicy NewWebCachePolicy ItemRule	GET, POST, PUT, DELETE	Application Delivery > Caching > Web Cache Policy
ApplicationDelivery/ Caching/ WebCacheException	—	GET, POST, PUT, DELETE	Application Delivery > Caching > Web Cache Exception
—	WebCacheException NewWebCacheException Rule	GET, POST, PUT, DELETE	Application Delivery > Caching > Web Cache Exception
WebProtection/ KnownAttacks/ Signatures	—	GET, POST, PUT, DELETE	Web Protection > Known Attacks > Signatures
WebProtection/ KnownAttacks/ CustomSignatureGroup	—	GET, POST, PUT, DELETE	Web Protection > Known Attacks > Custom Signature Group
—	CustomSignatureGroup NewProtectionGroupMember	GET, POST, PUT, DELETE	Web Protection > Known Attacks > Custom Signature Group
WebProtection/ KnownAttacks/ CustomSignature	—	GET, POST, PUT, DELETE	Web Protection > Known Attacks > Custom Signature

Resource name	Sub-resource name	Supported methods	Web UI location
—	CustomSignatureTarget	GET, POST, PUT, DELETE	Web Protection > Known Attacks > Custom Signature
WebProtection/ AdvancedProtection/ CustomPolicy	—	GET, POST, PUT, DELETE	Web Protection > Advanced Protection > Custom Policy
—	CustomPolicy NewCustomAccessItem	GET, POST, PUT, DELETE	Web Protection > Advanced Protection > Custom Policy
WebProtection/ AdvancedProtection/ CustomRule	—	GET, POST, PUT, DELETE	Web Protection > Advanced Protection > Custom Rule
—	CustomRule NewCustomAccessRule	GET, POST, PUT, DELETE	Web Protection > Advanced Protection > Custom Rule
WebProtection/ AdvancedProtection/ PaddingOracleProtection	—	GET, POST, PUT, DELETE	Web Protection > Advanced Protection > Padding Oracle Protection
—	NewPaddingItem	GET, POST, PUT, DELETE	Web Protection > Advanced Protection > Padding Oracle Protection
WebProtection/ InputValidation/ ParameterValidationPolicy	—	GET, POST, PUT, DELETE	Web Protection > Input Validation > Parameter Validation Policy
—	ParameterValidation Policy NewParameter ValidationRule	GET, POST, PUT, DELETE	Web Protection > Input Validation > Parameter Validation Policy

Resource name	Sub-resource name	Supported methods	Web UI location
WebProtection/ InputValidation/ ParameterValidationRule	—	GET, POST, PUT, DELETE	Web Protection > Input Validation > Parameter Validation Rule
—	ParameterValidationRule NewRule	GET, POST, PUT, DELETE	Web Protection > Input Validation > Parameter Validation Rule
WebProtection/ InputValidation/ HiddenFieldsPolicy	—	GET, POST, PUT, DELETE	Web Protection > Input Validation > Hidden Fields Policy
—	HiddenFieldsPolicy CreateHiddenFieldsRule	GET, POST, PUT, DELETE	Web Protection > Input Validation > Hidden Fields Policy
WebProtection/ InputValidation/ HiddenFieldsRule	—	GET, POST, PUT, DELETE	Web Protection > Input Validation > Hidden Fields Rule
—	PostURL	GET, POST, PUT, DELETE	Web Protection > Input Validation > Hidden Fields Rule
—	Fields	GET, POST, PUT, DELETE	Web Protection > Input Validation > Hidden Fields Rule
WebProtection/ InputValidation/ FileUpload RestrictionPolicy	—	GET, POST, PUT, DELETE	Web Protection > Input Validation > File Upload Restriction Policy

Resource name	Sub-resource name	Supported methods	Web UI location
—	FileUpload RestrictionPolicy NewFileUpload RestrictionPolicy	GET, POST, PUT, DELETE	Web Protection > Input Validation > File Upload Restriction Policy
WebProtection/ InputValidation/ FileUpload RestrictionRule	—	GET, POST, PUT, DELETE	Web Protection > Input Validation > File Upload Restriction Rule
—	FileUpload RestrictionRuleItem	GET, POST, PUT, DELETE	Web Protection > Input Validation > File Upload Restriction Rule
WebProtection/ Protocol/ HTTPProtocolConstraints	—	GET, POST, PUT, DELETE	Web Protection > Protocol > HTTP Protocol Constraints
WebProtection/ Protocol/ HTTPConstraintsException	—	GET, POST, PUT, DELETE	Web Protection > Protocol > HTTP Constraints Exception
—	HTTPConstraintsException NewHTTPConstraints ExceptionRule	GET, POST, PUT, DELETE	Web Protection > Protocol > HTTP Constraints Exception
WebProtection/ Access/ BruteForce	—	GET, POST, PUT, DELETE	Web Protection > Access > Brute Force
—	BruteForce NewLoginPage	GET, POST, PUT, DELETE	Web Protection > Access > Brute Force
WebProtection/ Access/ URLAccessPolicy	—	GET, POST, PUT, DELETE	Web Protection > Access > URL Access Policy
—	URLAccessPolicy NewURLAccessItem	GET, POST, PUT, DELETE	Web Protection > Access > URL Access Policy

Resource name	Sub-resource name	Supported methods	Web UI location
WebProtection/ Access/ URLAccessRule	—	GET, POST, PUT, DELETE	Web Protection > Access > URL Access Rule
—	URLAccessRule NewURLAccessCondition	GET, POST, PUT, DELETE	Web Protection > Access > URL Access Rule
WebProtection/ Access/ PageAccess	—	GET, POST, PUT, DELETE	Web Protection > Access > Page Access
—	PageAccess NewRule	GET, POST, PUT, DELETE	Web Protection > Access > Page Access
WebProtection/ Access/ StartPages	—	GET, POST, PUT, DELETE	Web Protection > Access > Start Pages
—	StartPages NewPage	GET, POST, PUT, DELETE	Web Protection > Access > Start Pages
WebProtection/ Access/ AllowMethodPolicy	—	GET, POST, PUT, DELETE	Web Protection > Access > Allow Method Policy
WebProtection/ Access/ AllowMethodExceptions	—	GET, POST, PUT, DELETE	Web Protection > Access > Allow Method Exceptions
—	AllowMethodExceptions NewAllowMethodException	GET, POST, PUT, DELETE	Web Protection > Access > Allow Method Exceptions
WebProtection/ Access/ IPList	—	GET, POST, PUT, DELETE	Web Protection > Access > IP List
—	IPList CreateIPListPolicyMember	GET, POST, PUT, DELETE	Web Protection > Access > IP List
WebProtection/ Access/ GeoIP	—	GET, POST, PUT, DELETE	Web Protection > Access > Geo IP

Resource name	Sub-resource name	Supported methods	Web UI location
—	AddCountry	GET, POST, PUT, DELETE	Web Protection > Access > Geo IP
WebProtection/ WebAnti-Defacement/ AntiDefacement	—	GET, POST, PUT, DELETE	Web Protection > Web Anti-Defacement > Anti Defacement
WebProtection/ WebAnti-Defacement/ AntiDefacementFileFilter	—	GET, POST, PUT, DELETE	Web Protection-Web Anti-Defacement > Anti Defacement File Filter
DoSProtection/ Application/ HTTPAccessLimit	—	GET, POST, PUT, DELETE	Dos Protection > Application > HTTP Access Limit
DoSProtection/ Application/ MaliciousIPs	—	GET, POST, PUT, DELETE	Dos Protection > Application > Malicious IPs
DoSProtection/ Application/ HTTPFloodPrevention	—	GET, POST, PUT, DELETE	Dos Protection > Application > HTTP Flood Prevention
DoSProtection/ Network/ TCPFloodPrevention	—	GET, POST, PUT, DELETE	Dos Protection > Network > TCP Flood Prevention
DoSProtection/ DoSProtectionPolicy/ DoSProtectionPolicy	—	GET, POST, PUT, DELETE	Dos Protection > Dos Protection Policy > Dos Protection Policy
IPReputation/ IPReputation/ IPPolicy	—	GET, PUT	IP Reputation > IP Reputation > Policy
IPReputation/ IPReputation/ Exceptions	—	GET, POST, PUT, DELETE	IP Reputation > IP Reputation > Exception
AutoLearn/ AutoLearnProfile/ AutoLearnProfile	—	GET, POST, PUT, DELETE	Auto Learn > Auto Learn Profile > Auto Learn Profile

Resource name	Sub-resource name	Supported methods	Web UI location
AutoLearn/ AutoLearnReport/ AutoLearnReport	—	GET, POST, PUT	Auto Learn > Auto Learn Report > Auto Learn Report
	Dictionaries	GET	
	Getnode	GET	
	Domain	GET, POST, PUT	
	GeneratePDF	GET	
	SubAttack	GET, POST, PUT	
	URLPage	POST, PUT	
	ParamChange	POST, PUT	
	AccessChange	POST, PUT	
	GenerateConfig	POST, PUT	
	AttackChange	POST, PUT	
	default_scrap	POST	
	scrap_content_type	POST	
AutoLearn/ AutoLearnProfile/ AutoLearnChart		GET	
AutoLearn/ PredefinedPattern/ DataTypeGroup	—	GET, POST, PUT, DELETE	Auto Learn > Predefined Pattern > Data Type Group
AutoLearn/ PredefinedPattern/ PredefinedDataType	—	GET	Auto Learn > Predefined Pattern > Data Type
AutoLearn/ PredefinedPattern/ URLPattern	—	GET	Auto Learn > Predefined Pattern > URL Pattern

Resource name	Sub-resource name	Supported methods	Web UI location
AutoLearn/ PredefinedPattern/ SuspiciousURL	—	GET, POST, PUT, DELETE	Auto Learn > Predefined Pattern > Suspicious URL
AutoLearn/ CustomPattern/ CustomDataType	—	GET, POST, PUT, DELETE	Auto Learn > Custom Pattern > Data Type
AutoLearn/ CustomPattern/ SuspiciousURLPolicy	—	GET, POST, PUT, DELETE	Auto Learn > Custom Pattern > Suspicious URL Policy
—	SuspiciousURLPolicy EditSuspiciousURLRule	GET, POST, PUT, DELETE	Auto Learn > Custom Pattern > Suspicious URL Policy
AutoLearn/ CustomPattern/ SuspiciousURLRule	—	GET, POST, PUT, DELETE	Auto Learn > Custom Pattern > Suspicious URL Rule
AutoLearn/ ApplicationTemplates/ ApplicationPolicy	—	GET, POST, PUT, DELETE	Auto Learn > Application Template > Application Policy
—	ApplicationPolicy NewApplicationRule	GET, POST, PUT, DELETE	Auto Learn > Application Template > Application Policy
AutoLearn/ ApplicationTemplates/ URLReplacer	—	GET, POST, PUT, DELETE	Auto Learn > Application Template > URL Replacer
WebVulnerabilityScan/ WebVulnerabilityScan/ WebVulnerabilityScanPolicy	—	GET, POST, PUT, DELETE	Web Vulnerability Scan > Web Vulnerability Scan > Web Vulnerability Scan Policy

Resource name	Sub-resource name	Supported methods	Web UI location
WebVulnerabilityScan/ WebVulnerabilityScan/ WebVulnerabilityScan Profile	—	GET, POST, PUT, DELETE	Web Vulnerability Scan > Web Vulnerability Scan > Web Vulnerability Scan Profile
WebVulnerabilityScan/ WebVulnerabilityScan/ WebVulnerabilityScan Schedule	—	GET, POST, PUT, DELETE	Web Vulnerability Scan > Web Vulnerability Scan > Web Vulnerability Scan Schedule
WebVulnerabilityScan/ WebVulnerabilityScan/ ScanHistory	—	GET, POST, PUT, DELETE	Web Vulnerability Scan > Web Vulnerability Scan > Scan History
LogReport/ LogPolicy/ EmailPolicy	—	GET, POST, PUT, DELETE	Log & Report > Log Policy > Email Policy
LogReport/ LogPolicy/ SyslogPolicy	—	GET, POST, PUT, DELETE	Log & Report > Log Policy > Syslog Policy
	SyslogServer	GET, POST, PUT, DELETE	
LogReport/ LogPolicy/ SIEMPolicy		GET, POST, PUT, DELETE	
LogReport/ LogPolicy/ FortiAnalyzerPolicy	—	GET, POST, PUT, DELETE	Log & Report > Log Policy > FortiAnalyzer Policy
	FortiAnalyzerServer	GET, POST, PUT, DELETE	
LogReport/ LogPolicy/ TriggerPolicy	—	GET, POST, PUT, DELETE	Log & Report > Log Policy > Trigger Policy

Resource name	Sub-resource name	Supported methods	Web UI location
LogReport/ LogConfig/ GlobalLogSettings	—	GET, PUT	Log & Report > Log Config > Global Log Settings
LogReport/ LogConfig/ OtherLogSettings	—	GET, PUT	Log & Report > Log Config > Other Log Settings
LogReport/ LogConfig/ SensitiveDataLogging	—	GET, POST, PUT, DELETE	Log & Report > Log Config > Sensitive Data Logging
LogReport/ LogConfig/ SensitiveData LoggingRuleType		GET, POST, PUT, DELETE	Log & Report > Log Config > Sensitive Data Logging
LogReport/ LogAccess/ LogAccess Event?offset=0&size=30 Cookie: LogName=elog.log parameters offset: start line id size: total number of lines every page	—	GET	Log & Report > Log Access > Event
LogReport/ LogAccess/ LogAccess Attack?offset=0&size=30 Cookie: LogName=alog.log parameters offset: start line id size: total number of lines every page	—	GET	Log & Report > Log Access > Attack
LogReport/ LogAccess/ LogAccess AggregatedAttack? day=3¤t Page=1&startLine=0 Cookie LogName=alog.log parameters day: total days of every page currentPage: the number of page to show startLine: start line number	—	GET	

Resource name	Sub-resource name	Supported methods	Web UI location
LogReport/ LogAccess/ LogAccess Traffic?offset=0&size=30 Cookie: LogName=tlog.log parameters offset: start line id size: total number of lines every page	—	GET	Log & Report > Log Access > Traffic
LogReport/ LogAccess/ LogAccessDownload	—	GET	Log & Report > Log Access > Download
LogReport/ LogAccess/ DownloadFile		GET	Log & Report > Log Access > Download
LogReport/ ReportConfig/ ReportConfig	—	GET, POST, PUT, DELETE	Log & Report > Report Config > Report Config
LogReport/ ReportBrowse/ ReportBrowse	—	GET	Log & Report > Report Browse > Report Browse
LogReport/ Monitor/ data_analytics		GET	
	time_trend	GET	
	type_view	GET	
	data_view	GET	
	attack	GET	
LogReport/ Monitor/ BotAnalysis		GET	
LogReport/ Monitor/ BlockedIPs	—	GET	Log & Report > Monitor > Blocked IPs
ServerObjects/ Server/ VirtualServerPortList		GET	Server Objects > Server > Virtual Server

Resource name	Sub-resource name	Supported methods	Web UI location
System/ Config/ OperationVirtualServer		GET	System > Config > Operation
System/ Network/ RoutePortList		GET	System > Network > Route Static
User/ LocalUser/ LocalUserList		GET	User > User Group > User Group
User/ RemoteServer/ LdapServerList		GET	User > User Group > User Group
User/ RemoteServer/ RadiusServerList		GET	User > User Group > User Group
User/ RemoteServer/ NtlmServerList		GET	User > User Group > User Group
User/ RemoteServer/ RadiusServerTest		POST	User > Remote Server > Radius Server
User/ RemoteServer/ LdapServerTest		POST	User > Remote Server > LDAP User
AutoLearn/ CustomPattern/ SuspiciousURLRuleList		GET	Auto Learn > Custom Pattern > Suspicious URL Policy
ServerObjects/ ProtectedHostnames/ HostList		GET	
LogReport/ LogPolicy/ TriggerList		GET	
AutoLearn/ ApplicationTemplates/ URLReplacerList		GET	
AutoLearn/ PredefinedPattern/ DataTypeGroupList		GET	

Resource name	Sub-resource name	Supported methods	Web UI location
AutoLearn/ PredefinedPattern/ SuspiciousURLList		GET	
AutoLearn/ ApplicationTemplates/ ApplicationPolicyList		GET	
WebProtection/ Access/ SeverityList		GET	
AutoLearn/ CustomPattern/ SuspiciousURLPolicyList		GET	
WebProtection/ Access/ GeoIPExceptionsList		GET	
WebProtection/ Access/ AllowMethod ExceptionsList		GET	
WebProtection/ Access/ URLAccessRuleList		GET	
AutoLearn/ PredefinedPattern/ DataTypeList		GET	
AutoLearn/ CustomPattern/ CustomDataTypeList		GET	
WebProtection/ InputValidation/ HiddenFieldsRuleList		GET	
WebProtection/ KnownAttacks/ CustomSignatureList		GET	
WebProtection/ AdvancedProtection/ ContentTypeList		GET	

Resource name	Sub-resource name	Supported methods	Web UI location
WebProtection/ AdvancedProtection/ CustomRuleList		GET	
ServerObjects/ ProtectedHostnames/ ProtectedHostnames NewHostList		GET	
ApplicationDelivery/ Caching/ WebCacheExceptionList		GET	
ApplicationDelivery/ AuthenticationPolicy/ AuthenticationRuleList		GET	
User/ UserGroup/ UserGroupBasic		GET	
User/ UserGroup/ UserGroupDigest		GET	
User/ UserGroup/ UserGroupNtlm		GET	
ApplicationDelivery/ URLRewritingPolicy/ URLRewritingRuleList		GET	
ApplicationDelivery/ Compression/ ExclusionRuleList		GET	
System/ Network/ InterfaceType		GET	
System/ Network/ InterfaceList		GET	
ApplicationDelivery/ SitePublish/ KeytabFileList		GET	

Resource name	Sub-resource name	Supported methods	Web UI location
ApplicationDelivery/ SitePublish/ SitePublishRuleList		GET	
System/ Certificates/ CAList		GET	
System/ Certificates/ CAGroupList		GET	
System/ Certificates/ CRLList		GET	
System/ Certificates/ IntermediateCAList		GET	
System/ Certificates/ LocalOK		GET	
ApplicationDelivery/ SitePublish/ SitePublishRuleStatus		POST, PUT	
System/ Maintenance/ TimeZone		GET	
ServerObjects/ ServerHealthCheck/ ServerHealthCheckList		GET	
ServerObjects/ Server/ PersistenceList		GET	
System/ Certificates/ LocalList		GET	
System/ Certificates/ InterCAGroupList		GET	
System/ Certificates/ CertVerifyList		GET	

Resource name	Sub-resource name	Supported methods	Web UI location
System/ Config/ ConfigSynchronization Test		GET	
System/ Network/ SnmpInterfaceList		GET	
System/ Admin/ AccessProfileList		GET	
System/ Admin/ AdminDomainCondition		GET	
User/ UserGroup/ AdminUserGroupList		GET	
LogReport/ LogPolicy/ AlertMailList		GET	
WebProtection/ WebAnti-Defacement/ AntiDefacementBackupList		GET	
	Blob	GET	
	Commitdiff	GET	
WebProtection/ WebAnti-Defacement/ AntiDefacementChangeList		GET, POST, PUT	
LogReport/ LogAccess/ LogAccessEventPermission		GET	
WebProtection/ WebAnti-Defacement/ AntiDefacementTest		POST	
ApplicationDelivery/ SitePublish/ ImportKeytabFile		POST	

Resource name	Sub-resource name	Supported methods	Web UI location
Policy/ ServerPolicy/ ServerPolicyEnable		PUT	
System/ Config/ OperationServerPolicy		GET	
ServerObjects/ Server/ ServerPoolList		GET	
System/ Certificates/ URLBased ClientCertificateGroup		GET	
ServerObjects/ Service/ HttpServiceList		GET	
System/ Config/ FortiGuardUpdateNow		POST	
WebProtection/ KnownAttacks/ CustomSignatureGroupList		GET	
System/ Status/ StatusOpeartionReboot		POST	
System/ Status/ StatusOperationReset		POST	
System/ Status/ StatusOperationShutdown		POST	
System/ Status/ AdministrativeDomain		POST	
LogReport/ ReportConfig/ ReportConfigRunNow		GET	

Resource name	Sub-resource name	Supported methods	Web UI location
System/ Network/ VzoneInterface		GET	
LogReport/ Monitor/ DataAnalyticsPermission		GET	
System/ Certificates/ CountryRegion		GET	
System/ Maintenance/ RestoreConfiguration Checker		POST	
System/ Config/ SignatureUpdate		GET, POST	
System/ Config/ ImportSignatureUpdate		POST	
System/ Maintenance/ UploadFirmware		POST	
Policy/ WebProtectionProfile/ DbFileExists		GET	
System/ Status/ VMLicenseUpload		POST	
System/ Status/ VMLicense		POST	
LogReport/ ReportConfig/ ReportConfig CustomLogoList		GET	
LogReport/ ReportConfig/ ReportConfigLogoUpload		POST	

Resource name	Sub-resource name	Supported methods	Web UI location
LogReport/ ReportConfig/ ReportConfig CustomLogoList		GET, POST, DELETE	
LogReport/ LogAccess/ LogDownload		GET	
LogReport/ LogAccess/ LogManagement		GET, DELETE	
LogReport/ LogAccess/ LogAccessAttackDetail		GET	
LogReport/ LogAccess/ LogAccessTrafficDetail		GET	
WebProtection/ KnownAttacks/ AttacksSignatures Advanced	Dictionaries	GET, POST	
	Signature	GET	
	SignatureAlertOnly	GET	
	AttacksSignatures AdvancedSetting	GET	
	Signature	GET, POST, DELETE	
	SignatureDisabled	GET, POST, PUT, DELETE	
	SignatureAlertOnly	GET, POST, PUT, DELETE	
	SignatureSearch	GET, POST	
	SignatureMitigationDis	GET	
	SignatureCVE	GET	
	SignatureEx	GET	

Resource name	Sub-resource name	Supported methods	Web UI location
LogReport/ Monitor/ DownloadFile		GET	
System/ Status/ PolicyTraffic		GET	
System/ Status/ PolicyAttack		GET	
System/ Status/ PolicyHit		GET	
System/ Config/ SnmpNewSnmpv3User		GET, POST, DELETE	
System/ Config/ Snmpv3		GET, POST	
System/ Config/ SnmpDownMib		GET	
System/ Status/ Online		GET	
AutoLearn/ AutoLearnReport/ lang		GET	
System/ Menu/ DeviceMenu		GET	
ServerObjects/ Service/ Predefined		GET	Server Objects > Service > Predefined
WebProtection/ Protocol/ HTTPConstraints ExceptionList		GET	

Resource name	Sub-resource name	Supported methods	Web UI location
System/ Certificates/ LocalDownloadJson		GET (Download)	System > Certificates > Local
System/ Certificates/ CADownloadJson		GET (Download)	
System/ Certificates/ IntermediateCADownloadJson		GET (Download)	
For 5.5.1			
WebProtection/ KnownAttacks/ SignatureWizard		POST	
ServerObjects/ Server/ SSLCustomCipherList		GET	
System/ Config/ WCCPClient		GET, POST, PUT, DELETE	
System/ Config/ FortiGateIntegration		GET, POST	
LogReport/ LogPolicy/ FTPPolicy		GET, POST, PUT, DELETE	
System/ Config/ Hsm		GET	
System/ Config/ HsmRegister		POST	
System/ Config/ HsmUnregister		POST	

Resource name	Sub-resource name	Supported methods	Web UI location
System/ Config/ HsmUpload ServerCertificate		POST	
System/ Config/ HsmDownload		GET	
System/ Config/ HsmPartition		GET, POST, DELETE	
WebVulnerabilityScan/ ScannerIntegration/ ScannerIntegration		GET, POST, DELETE	
WebVulnerabilityScan/ ScannerIntegration/ ImportScanFile		POST	
WebVulnerabilityScan/ ScannerIntegration/ InlineRuleNameList		GET	
WebVulnerabilityScan/ ScannerIntegration/ OfflineRuleNameList		GET	
LogReport/ LogAccess/ LogAccess AggregatedAttackSum		GET	
For 5.5.5			
System/ Certificates/ LocalDownloadJson		GET	
System/ Certificates/ CRLDownloadJson		GET	
ApplicationDelivery/ SitePublish/ KeytabFileDownloadJson		GET	

Resource name	Sub-resource name	Supported methods	Web UI location
System/ Certificates/ CADownloadJson		GET	
System/ Certificates/ IntermediateCA DownloadJson		GET	
System/ Status/ Platform		GET	
System/ Config/ FortiGuardUpdateStop		GET	
For 5.7			
System/ Admin/ AdminCertCA		GET, POST, DELETE	
System/ Admin/ AdminCertCAList		GET	
System/ Admin/ AdminCertLocal		GET, POST, PUT, DELETE	
System/ Admin/ AdminCertLocalList		GET	
User/ PKIUser/ PKIUserList		GET	
For 5.8			
Tracking/ DeviceReputation/ ExceptionList		GET	
	EditReputation ExceptionsItem	POST	

Resource name	Sub-resource name	Supported methods	Web UI location
For 5.8.3			
System/ Config/ HAGenConfigFile		GET	
System/ Config/ HADownConfigFile		GET	

Examples of changing settings

Retrieve all static routes (GET)

Command

```
curl -H "Authorization: YWRtaW46" -k  
"https://172.22.10.74:90/api/v1.0/System/Network/StaticRoute"
```

Request header

```
GET https://172.22.10.74:90/api/v1.0/System/Network/StaticRoute HTTP/1.1  
User-Agent: Fiddler  
Authorization: YWRtaW46  
Host: 172.22.10.74:90
```

Response

```
HTTP/1.1 200 OK  
Server: openresty/1.5.8.1  
Date: Thu, 14 Aug 2014 17:03:34 GMT  
Content-Type: application/json  
Connection: keep-alive  
Content-Length: 115  
  
[  
  {  
    "_id": 1,  
    "id": 1,  
    "destinationIpMask": "0.0.0.0/0",  
    "gateway": "172.22.10.1",  
    "interface": port1  
  }  
]
```

Create a new static route (POST)

Command

```
curl -X POST -H "Authorization: YWRtaW46" -H "ContentType: application/json" -k -d '{
  "destinationIpMask": "0.0.0.0/0", "gateway": "172.22.10.1", "interface": "port1"}'
https://172.22.10.74:90/api/v1.0/System/Network/StaticRoute"
```

Request header

```
POST https://172.22.10.74:90/api/v1.0/System/Network/StaticRoute HTTP/1.1
User-Agent: Fiddler
Authorization: YWRtaW46
Host: 172.22.10.74:90
Content-Length: 92
```

```
{
  "destinationIpMask": "0.0.0.0/0",
  "gateway": "172.22.10.1",
  "interface": port1
}
```

Response

```
HTTP/1.1 200 OK
Server: openresty/1.5.8.1
Date: Thu, 14 Aug 2014 17:05:11 GMT
Content-Type: application/json
Connection: keep-alive
Content-Length: 94
```

```
{
  "destinationIpMask": "0.0.0.0/0",
  "gateway": "172.22.10.1",
  "interface": port1,
  "_id": 1
}
```

Update an existing static route (PUT)

Command

```
curl -X PUT -H "Authorization: YWRtaW46" -H "ContentType: application/json" -k -d '{"_id":
  "1", "destinationIpMask": "0.0.0.0/0", "gateway": "172.22.10.2", "interface": "port1"}'
https://172.22.10.74:90/api/v1.0/System/Network/StaticRoute/1"
```

Request header

```
PUT https://172.22.10.74:90/api/v1.0/System/Network/StaticRoute/1 HTTP/1.1
User-Agent: Fiddler
Authorization: YWRtaW46
```

```
Host: 172.22.10.74:90
Content-Length: 92
```

```
{
  "destinationIpMask": "0.0.0.0/0",
  "gateway": "172.22.10.2",
  "interface": port1
}
```

Response

```
HTTP/1.1 200 OK
Server: openresty/1.5.8.1
Date: Thu, 14 Aug 2014 17:05:41 GMT
Content-Type: application/json
Connection: keep-alive
Content-Length: 94
```

```
{
  "destinationIpMask": "0.0.0.0/0",
  "gateway": "172.22.10.2",
  "interface": port1,
  "_id": 2
}
```

Delete an existing static route (DELETE)

Command

```
curl -k -X DELETE -H "Authorization: YWRtaW46"
  "https://172.22.10.74:90/api/v1.0/System/Network/StaticRoute/1"
```

Request header

```
DELETE https://172.22.10.74:90/api/v1.0/System/Network/StaticRoute/1 HTTP/1.1
User-Agent: Fiddler
Authorization: YWRtaW46
Host: 172.22.10.74:90
```

Response

```
HTTP/1.1 200 OK
Server: openresty/1.5.8.1
Date: Thu, 14 Aug 2014 17:06:51 GMT
Content-Type: application/json
Connection: keep-alive
Content-Length: 18
```

```
{
  "affected": 1
}
```

Request failures

Unsupported method

If a request fails because the method is unsupported, the HTTP response code is 405 (Not Allowed).

For example:

Command

```
curl -k -H "Authorization: YWRtaW46"  
      "https://172.22.10.74:90/api/v1.0/System/Maintenance/RestoreConfiguration"
```

Request header

```
GET https://172.22.10.74:90/api/v1.0/System/Maintenance/RestoreConfiguration HTTP/1.1  
User-Agent: Fiddler  
Authorization: YWRtaW46  
Host: 172.22.10.74:90
```

Response

```
HTTP/1.1 405 Not Allowed  
Server: openresty/1.5.8.1  
Date: Thu, 14 Aug 2014 17:08:25 GMT  
Content-Type: text/html  
Content-Length: 178  
Connection: keep-alive  
  
<html>  
<head><title>405 Not Allowed</title></head>  
<body bgcolor="white">  
<center><h1>405 Not Allowed</h1></center>  
<hr><center>openresty/1.5.8.1</center>  
</body>  
</html>
```

Other failures

If an API request fails for any other reason, the response contains the application error code and the HTTP response code 500 (Internal Server Error).

For example:

Command

```
curl -X POST -H "Authorization: YWRtaW46" -H "ContentType: application/json" -k -d '  
  {"destinationIpMask": "0.0.0.0/0", "gateway": "172.22.10.3", "interface": "port1"}'  
  "https://172.22.10.74:90/api/v1.0/System/Network/StaticRoute"
```

Request header

```
POST https://172.22.10.74:90/api/v1.0/System/Network/StaticRoute HTTP/1.1
User-Agent: Fiddler
Authorization: YWRtaW46
Host: 172.22.10.74:90
Content-Length: 92

{
  "destinationIpMask": "0.0.0.0/0",
  "gateway": "172.22.10.3",
  "interface": port1
}
```

Response

```
HTTP/1.1 500 Internal Server Error
Server: openresty/1.5.8.1
Date: Thu, 14 Aug 2014 17:07:34 GMT
Content-Type: application/json
Transfer-Encoding: chunked
Connection: keep-alive

{
  "destinationIpMask": "0.0.0.0/0",
  "gateway": "172.22.10.3",
  "interface": port1,
  "msg": "Duplicate IP address"
}
```



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